PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 193 AND SOUTHWAY IN PRINCE GEORGE'S COUNTY. MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULLY-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR THE EAST APPROACH OF MD 193, MD 193 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND THE SOUTHWAY MOVEMENT WILL ACT ALONE. THERE ARE PEDESTRIAN INDICATIONS FOR THE NORTH LEG OF THE INTERSECTION. THE CONTROLLER FOR THIS INTERSECTION IS A MASTER LOCAL.

EQUIPMENT LIST FOR CONTRACT NO. PG8925177

A EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CATEGORY	QUANTITY	UNIT	DESCRIPTION
9104	1	EΑ	SIZE 'S' CABINET WITH CONTROLLER AND VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9110	1	EA	BATTERY BACKUP EQUIPMENT FOR 'S' CABINET
9118	2	EΑ	4 CHANNEL DETECTOR AMPLIFIER

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CATEGORY	QUANTITY	UNIT	DESCRIPTION
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
504168	0.3	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM, PG76-22, 8PV, LEVEL-2
504428	0.8	TON	HOT MIX ASPHALT SUPERPAVE 25.0MM FOR FULL DEPTH PATCH, PG64-22, LEVEL-2
520113	2	SY	6 INCH GRADED AGGREGATE BASE COURSE
 585412 	215	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
634300	105	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
655105	445	SF	5 INCH CONCRETE SIDEWALK
655120	35	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	2	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
800000	225	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
800000	2	EA	LED LAMP & LUMINAIRE
800000	1	EA	2-WIRE GENTRAL CONTROL UNIT
801004	11.5	CY	CONCRETE FOR SIGNAL FOUNDATION
801106	66	LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
801605	108	SF	SHEET ALUMINUM SIGNS, CONSISTING OF:
	7	EA	M1-5 (30" x 48") GROUND MOUNTED
	Ī	EA	M3-4 (24" x 12") GROUND MOUNTED
	7	EA	M6-2 (21" x 15") GROUND MOUNTED
	2	EΑ	D-3(1) (VAR. x 16") MAST ARM MOUNTED
	2	ËΑ	R3-5L (30" x 36") MAST ARM MOUNTED
	1	EA	R3-4 (24" x 24") MAST ARM MOUNTED
	2	EΑ	R10-3(1) (9" x 15") POLE MOUNTED
	2	EA EA	M1-5(6) (48" x 72") POLE MOUNTED
	- € 1	EA	W11-2 (30"x 30") GROUND MOUNTED W16-7p(L) (24"x 12") GROUND MOUNTED
	1.	EA	
	1	EA	W16-7p(R) (24"x 12") GROUND MOUNTED R1-2 (36"x 36"x 36") GROUND MOUNTED
802501	260	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802570	185	LF	1 CONDUCTOR #2/0 AWG CABLE
805115	145	ĽF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805118	200	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805125	50	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	35	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	110	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807500	1	EA	EMBEDDED METERED SERVICE PEDESTAL
810022	15	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
810601	4	ΕA	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
810605	2	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	8	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	2	EA	VIDEO DETECTION CAMERA
818004	2	EA	10 FOOT BREAKAWAY PEDESTAL POLE
818036	1	EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
818051	1	EA	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS
837001	5	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	24	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	160	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	250	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1150	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	370	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
866103	1	ËΑ	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
866104	1	EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
			·

C. EQUIPMENT TO BE REMOVED.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

- A,B,C } 7 CONDUCTOR ELECTRICAL CABLE D,E } (NO. 14 AWG)

- R RE-ROUTED INTERCONNECT CABLES
- s | EXISTING INTERCONNECT CABLE

<u>CONTACTS</u>

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Mr. Tom Fountain Assistant District Engineer - Maintenance Phone: (301) 513-7304

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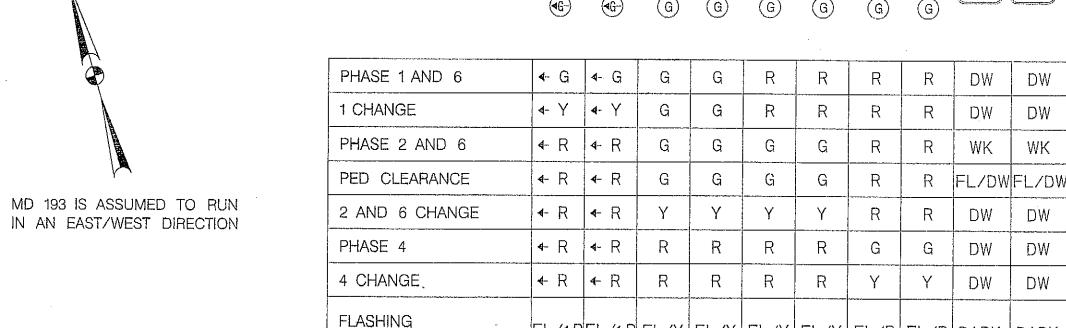
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Mr. Sonny Bailey Supervisor, Sign Shop Phone: (410) 787-7676

Mr. Mike Stocker Supervisor, Signal Warehouse Phone: (410) 787-7668

Power Company Representative - PEPCO (PG) Mr. Richard Chilcoat, Service Associate PEPCO Engineering 8300 Old Marlboro Pike Upper Marlboro, MD 20772 Phone: (301) 967-5805, Fax: (301) 967-5820 emaill: rachilcoat@pepco.com



PHASE CHART

FL/4-RFL/4-R FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | DARK | DARK

3 4 5 6 7 8 9 10

WIRING DIAGRAM EX, INTERCONNECT TO B/W PARKWAY RAMPS y,x --PEPCO # EX. INTERCONNECT TO 833423-4117 GREENWAY SHOPPING CENTER R,a,b,c,d,e,f,g,h ~ --- A,B,C,D,E,J,K,L,M,x EX. INTERCONNECT TO LAKECREST DRIVE K,M,X □ B,C,E,K,M,P,a,b,c,d,e,f,x THE CONTRACTOR WILL "WORK WITH" PEPCO ON THE INSTALLATION OF THE 3 WIRES, 1 CONDUCTOR -B,C,E,P,a,b,c,d,e,f,x IT HAS BEEN ASSUMED THAT DURING THE "WORK WITH" ADDITIONAL CABLE WILL BE COILED AND ATTACHED REDLINE 1 -B,C,E,P,a,b,c,d,xADDITION OF SIGNAL TO PROJECT PG8925177

OPERATION

WIRING KEY

NOTE:

F,G,H & 5 CONDUCTOR ELECTRICAL CABLE J,K J (NO. 14 AWG)

- L,M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P,Q } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TYPE T/C

a,b } VIDEO CAMERA CABLE

ELECTRICAL CABLE (NO. 2 AWG/THHN).

(TO THE WOOD POLE) TO PEPCO STANDARDS.

c,d,e,f,g,h } NON-INVASIVE CABLE

) STRANDED BARE COPPER GROUND WIRE 「(NO. 6 AWG)

y } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG-THHN/THWN)

z } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG-THHN/THWN)

+ } GROUND ROD

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 193 (GREENBELT RD) AND SOUTHWAY GREENBELT, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 09/2012 CONTRACT NO. PG8925177

DESIGNED BY___ COUNTY PRINCE GEORGE'S LOGMILE ____ TIMS NO. _____

TOD NO.

BRUDIS & ASSOCIATES, INC.

Consulting Engineers 9240 Rumsey Road; Suite C Columble, Maryland 21045 Phone 410-884-3607

└B,C,E,a,b,x

SHEET NO. 24 OF 26TS NO. 252F DRAWING GN-1 OF 1.